



let's make it **easy**

## Data Cable Modem



### Overview

The Ubee Data Cable Modem is compatible with the latest DOCSIS 2.0 Specifications including A-TDMA/S-CDMA which provides far greater upstream capacity than ever before. With speeds up to 42 Mbps downstream, 30.72 Mbps upstream that provides you a broadband multimedia applications such as interactive gaming, video streaming and real-time audio much easier and faster than ever. It's an idea for streaming multimedia content to the home.

### Key Features & Benefits

- **High Performance**

The built-in DOCSIS 2.0 cable modem that also can backward compatible with DOCSIS 1.1/1.0 standards. It offers higher data transfer rates up to 42 Mbps downstream.

- **Robust Security**

Baseline Privacy (BPI) provides cable modem users with data privacy across the RF network. It provides user data privacy by encrypting traffic flows between CM and CMTS. To provide strong protection against theft of service, the CMTS would need to authenticate client CMs: the CMTS would need to establish a unique, verifiable identity for a cable modem and authenticate key requests claiming to be from that cable modem.

- **Easy to Use**

Universal Plug and Play (UPnP) makes it easy to use your computers and other client devices. The Ubee data cable modem offers you the choice of Ethernet or USB connectivity and easy installation. The conveniently located LED status indicators let you quickly check the modem's status and activity.

- **QoS**

The access control is variable length packet based DOCSIS MAC protocol with contention and reservation slots. The QoS (Quality of Service) will guarantee the bandwidth allocation and latency with dynamic service establishment.

## Product Specifications

### Interface

- Cable : F-Connector, Female
- LAN: 1 10/100 Mbps RJ-45 port
- One USB 1.1 Port

### DOSIS Standard

- DOCSIS 2.0 Certified
- DOCSIS 1.1 Compatible
- DOCSIS 1.0 Compatible

### Downstream

- Frequency Range: 88MHz ~ 860MHz
- Modulation: 64 / 256 QAM
- Maximum Data Rate:
  - 30Mbps/sec (64QAM)
  - 42.8Mbps/sec (256QAM)
- Symbol Rate: 5.057/5.361/Msymbols/sec
- RF Input/Output Power:
  - 17 to +15dBmV (64 QAM)
  - 15 to +17dBmV (256 QAM)
- Input Impedance: 75  $\Omega$
- Channel Bandwidth: 6 or 8 MHz

### Upstream

- Frequency Range: 5MHz ~ 42MHz
- Modulation:
  - A-TDMA: QPSK, 8, 16, 32, 64QAM
  - S-CMDA: QPSK, 8, 16, 32, 64, 128QAM
- Maximum Data Rate:
  - 0.32 ~ 10.24Mbps (QPSK)
  - 0.64 ~ 20.48Mbps (16QAM)
  - 0.96 ~ 30.72Mbps (64QAM)
- Symbol Rate:
  - 160, 320, 640, 1280, 2560, 5120 Ksymbols/sec
- RF Input/Output Power A-TDMA:
  - 8dBmV ~ + 58dBmV(QPSK)
  - 8dBmV ~ + 55dBmV(QAM)
  - 8dBmV ~ +54dBmV (32/64

### IP Management

- DHCP Client

### Network Management

- Web-based configuration
- Telnet remote management
- Firmware upgrade via TFTP
- Configuration backup and restore
- SNMP support

### Physical Specifications

- Dimensions: 127(W) x 122(D) x 32(H) mm
- Weigh: 150g
- Power: 12V/1A

### Environment Conditions

- Operating temperature: 0°C ~ 40°C
- Humidity: 5-95% (non-condensing)

### Certifications

- CE
- FCC Class B
- Withstand 8KV test voltage of electrostatic discharge under operational conditions.

\*Actual speeds will vary based on factors including network configuration and speed

Application Diagram



www.ubeeinteractive.com  
1.888.390.8233